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- comprises thermoplastic satd. norbornene-series resin, used for liq. crystal display ([Derwent Record](#))**Country:** JP Japan**Kind:** A**Inventor:** HANI TSUTOMU;
TAKAHASHI SHINICHI;
OBARA TEIJI;
NATSUUME YOSHIO;**Assignee:** NIPPON ZEON CO LTD
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 1993-03-12 / 1991-10-09**Application Number:** JP1991000289500**IPC Code:** IPC-7: [G02F 1/1333](#);**Priority Number:** 1991-06-17 JP1991000170388**Abstract:** PURPOSE: To improve transparency, heat resistance, moisture resistance, strength, water resistance, electrical insulating characteristic, solvent resistance, chemical resistance to acids, alkalis, etc., and low double refractiveness by laminating sheets consisting of a thermoplastic satd. norbornane resin and a transparent electrode layer, etc., thereon.CONSTITUTION: The liquid crystal substrate is molded by using the thermoplastic satd. norbornane resin. The transparent conductive layer having $\leq 0.2\mu\text{m}$ max. height Rmax value of the surface is laminated. This thermoplastic resin is exemplified by the ring opening polymer of a norbornane polymer, its hydrogenated matter, the addition polymer of the norbornane polymer, the addition type polymer of the norbornane monomer and olefin, etc. The number average mol.wt. of the thermoplastic satd. norbornane resin is 10000 to 200000, more preferably 20000 to 1500000, further preferably 25000 to 120000 measured by a gel permeation chromatography method by a toluene solvent. The mechanical strength is inferior if the number average mol.wt. is too small. The moldability is poor if the number average mol.wt. is too large.

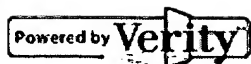
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	Patent	Pub.Date	Inventor	Assignee	Title
	US5833878	1998-11-10	Shinohara; Hironobu	JSR Corporation	Liquic panel
	US5766699	1998-06-16	Ohtsuki; Toshihiro	Japan Synthetic Rubber Co., Ltd.	Molde
	US5516456	1996-05-14	Shinohara; Hironobu	Japan Synthetic Rubber Co., Ltd.	Liquic panel

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